1. Alignment and Adjustments

1-1. Tuner

FM Section

FM IF Adjustment	
SSG FREQ.	98MHZ DEV=40KHZ LEVEL=60dB
Adjustment point (TFT2)	FM DETECTOR COIL
DC Digital Meter Output	0.00V
Distortion (0.3%-0.8%) (Figure 1-1)	

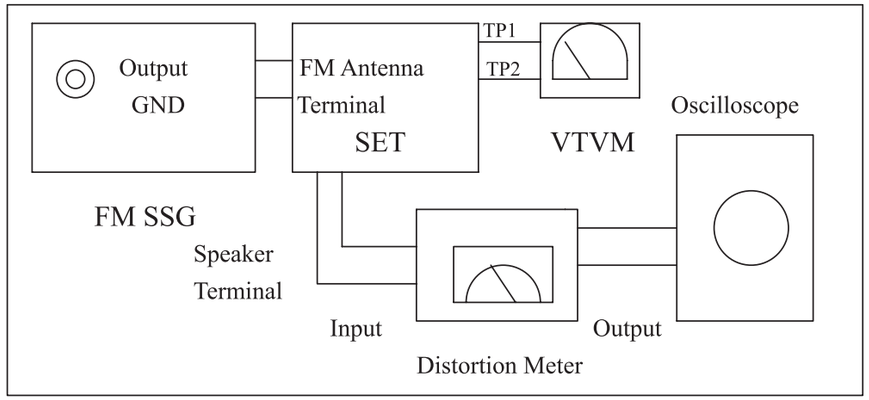

Figure 1-1 IF CENTER and THD Adjustment

FM Frequency Range And S/N 30dB Usable Sens. Check

5	Point : 87.5MHZ	90MHZ	98MHZ	106MHZ	108MHZ
Usable Sens. Spec. S/N 30 dB : Normal : 10dB Limit : 21dB					

FM Stereo Separation Check

fc	fs	Main	Pilot	Level	Spec
98.0MHZ	1KHZ	90%	10%	60dB	Normal : 28dB Limit : 25dB

FM Stereo/Mono Distortion Check

	fc	fs	Dev	Main	Pilot	Level	Spec.
Mono	98MHZ	1KHZ	40KHZ			60dB	Nor. : 0.5% Lim.: 1.5%
Stereo	98MHZ	1KHZ	75KHZ	90%	10%	60dB	Nor. : 1% Lim. : 5%

FM Seek Stop Check

	fc	fs	Dev	Level	Spec.
Seek Stop	98MHZ	1KHZ	40KHZ		23-33dB
Adjustment (Figure1-2)	Adjust TVR1(MIC6 30Pin Voltage 2.10V+/-0.1V), SSG Level 28dB, Seek Stop Check.				

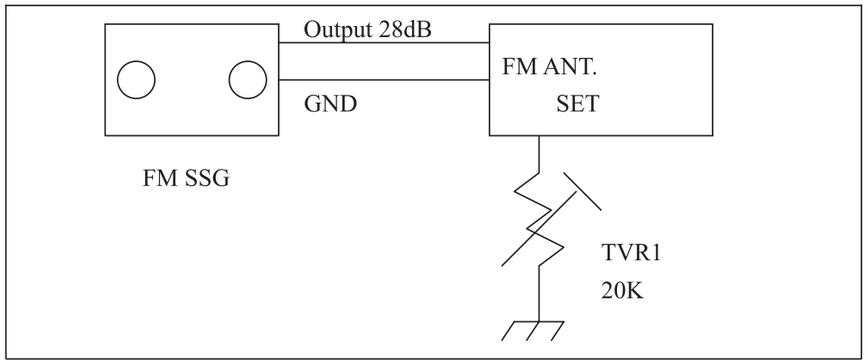

Figure 1-2 FM Auto Search Level Adjustment

AM (MW) Section

AM (MW) IF Adjustment

SSG FREQ.	450KHZ
Frequency	522KHZ
Adjustment Point TFT1	AM IF COIL
Maximum output (Figure 1-3)	

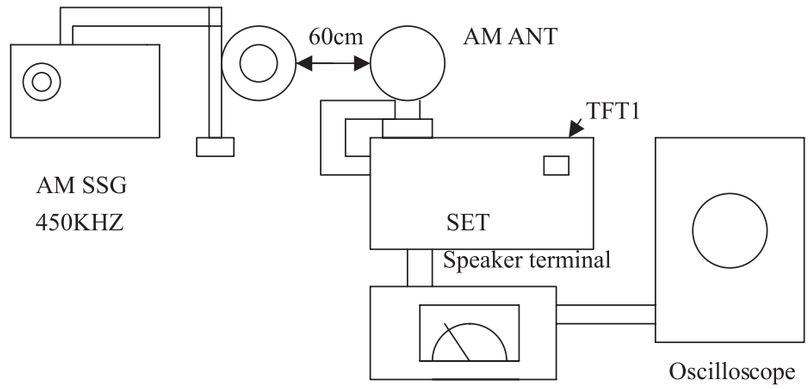

Figure 1-3 AM IF Adjustment

MW Tuning Voltage (VT) Check

Spec.	522KHZ : 1.1V+/-0.1V
	1611KHZ : 7.0V+/-0.5V
Adjustment	Low(522KHZ) VT Basic , Adjust TL11(OSC)

RF Adjustment

1	Low Frequency(594KHZ), Usable Senc. (S/N 20dB) < 60dB
2	Adjust TL10(MW ANT), Gain Output Max.
3	Check Low Frequency(594KHZ), High Frequency(1404KHZ) < 60dB.

Seek Stop Check

fc	fs	Dev	Level	Spec.
999KHZ	400KHZ	30%		40-70dB

LW Section (OPTION)

Tuning Voltage (VT) Check

Spec.	144KHZ : 2V +/- 0.2V
	290KHZ : 7.0V+/-0.5V
Adjustment	Low (144KHZ) VT Basic , Adjust TL6(OSC)

RF Adjustment

1	Low Frequency (170KHZ), Usable Senc. (S/N 20dB) < 68dB
2	Adjust TL9 (MW ANT), Gain Output Max.
3	Check Low Frequency (170KHZ), High Frequency(270KHZ) < 68dB.

Seek Stop Check

fc	fs	Dev	Level	Spec.
212KHZ	400KHZ	30%		40-70dB

SW SECTION (OPTION)

SW1 Tuning Voltage (VT) Chick

Spec.	2.3MHZ:0.8V+/-0.2
	7.3MHZ: 7.0V+/-0.5
Adjustment	Low(2.3MHZ) VT Basic , Adjust TL4 (OSC)

RF Adjustment

1	Low Frequency(3.5MHZ), Usable Senc.(S/N 20dB)<38dB
2	Adjust TL8 (SW ANT), Gain Output Max.
3	Check Low Frequency(3.5MHZ), High Frequency(7.0MHZ) <38dB

Seek Stop Check

Fc	Fs	Dev	Level	Spec.
5MHZ	400KHZ	30%		30+/-15

SW2 Tuning Voltage (VT) Chick

Spec.	9.5MHZ: 1.2V+/-0.1
	26.1MHZ: 7.5V+/-0.5
Adjustment	Low(10MHZ) VT Basic , Adjust TL3 (OSC)

RF Adjustment

1	Low Frequency(10MHZ), Usable Senc.(S/N 20dB)<38dB
2	Adjust TL5 (SW ANT), Gain Output Max.
3	Check Low Frequency(10MHZ), High Frequency(23MHZ) <38dB

Seek Stop Check

Fc	Fs	Dev	Level	Spec.
16MHZ	400KHZ	30%		30+/-15

1-2. Cassette Deck

Check Tape Speed

Item	Tape	Pre-setup	Adjust point	Standard	Figure
Speed control	MTT-111N (3KHZ)	Press play button after putting tape into the Deck		2910KHZ-3090KHZ WOW&FLUTTER 0.2%-0.4%	1-4

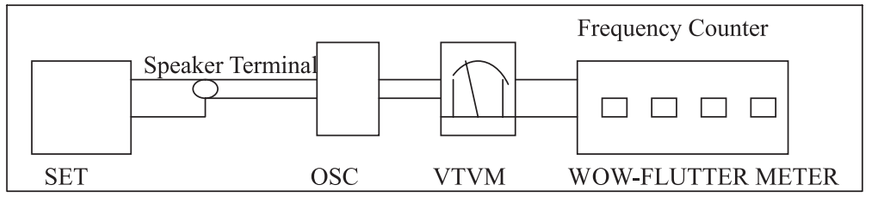

Figure 1-4

Adjust Record Frequency

Item	Tape	Pre-setup	Adjust point	Frequency range	Figure
Record Frequency	MTT-5513	Press Rec. button after connecting	JT1	85KHZ+/-1KHZ	Figure(1-5)

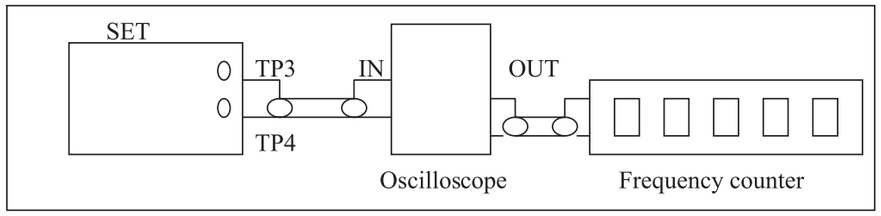

Figure 1-5

Adjust Azimuth

Tape	Adjust Point	Standard	Figure
MTT-111CN Press Play Button after putting tape into the Deck	Adjustment screw of HEAD	8KHZ	Fig. 1-4 Fig 1-6

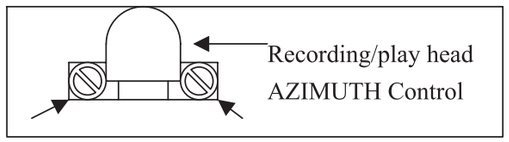

Figure 1-6